

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture;

WASHINGTON, D. C., September 30, 1914.

MONTHLY LIST OF PUBLICATIONS.

[SEPTEMBER, 1914.]

No publications are sold by the Department of Agriculture; therefore do not send money to this office.

Copies of any of the publications listed herein, except the *Journal of Agricultural Research* and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

When this department's supply is exhausted, publications can be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

SPECIAL NOTICE.

An increasing number of requests for publications are being received daily in this division with incomplete addresses. Many correspondents fail to sign their names. Some do not give post-office addresses. Persons living in large cities fail to furnish the street address; and some give as the post-office address the name of an office that has been discontinued for years. The department is unable to handle correspondence unless the signature is legible and the post-office address given in full, with street number or rural route number, as the case may be. Correspondents are therefore earnestly requested to see that the complete address is given in all communications addressed to this department.

REPORTS.

Annual Report of Alaska Agricultural Experiment Stations for 1913. Pp. 80, pls. 15. Sept. 5, 1914. Price, 20 cents.

SERIALS.

Journal of Agricultural Research. Vol. II, No. 6. September, 1914. Contents: Birds as Carriers of the Chestnut-Blight Fungus. By F. D. Heald and R. A. Studhalter.—Density of Wood Substance and Porosity of Wood. By Frederick Dunlap.—Composition of Roquefort-Cheese Fat. By James N. Currie.—A New Sarco-phagid Parasite of Grasshoppers. By E. O. G. Kelly.—Papaya Fruit Fly. By Frederick Knab and W. W. Yother.—Contents and Index of Volume II. Pp. 405-466, pls. 38-42, figs. 2. Price, 25 cents.

Note.—The *JOURNAL OF AGRICULTURAL RESEARCH* will be distributed free only to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The Superintendent of Documents will receive subscriptions for this publication, the price being \$2.50 per year, 12 numbers.

Experiment Station Record, Vol. XXXI, No. 3. Abstract Number. E. W. Allen, Ph. D.; Editor. Pp. 201-300. Price, 15 cents.

Same, Vol. XXX, Index Number. Pp. 901-999. Price, 15 cents.

The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, 10 numbers each, at \$1 a volume.

SERVICE AND REGULATORY ANNOUNCEMENTS.

NOTE.—Contain information, instructions, and notices of a regulatory nature. Issued monthly by certain bureaus. Free distribution limited to individuals, firms, establishments, and journals especially concerned. Others desiring copies may obtain them from the Superintendent of Documents, Government Printing Office, at 5 cents each.

Bureau of Chemistry. May, 1914, Supplement. Pp. 315-414. Sept. 11, 1914.

Federal Horticultural Board. August, 1914. Pp. 51-69. Sept. 25, 1914.

SOIL SURVEYS.

Soil Survey of Will County, Illinois. By Charles J. Mann and Mark Baldwin. Pp. 37, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Surveys of Orange County, New York. By G. A. Crabb, of the U. S. Department of Agriculture, and T. M. Morrison, of the New York State College of Agriculture. Pp. 56, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of Bamberg County, South Carolina. By W. E. McLendon. Pp. 40, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

BULLETINS.

Effects of Certain Cooking Conditions in Producing Soda Pulp from Aspen. By Henry E. Surface, Engineer in Forest Products, Forest Products Laboratory. Pp. 63, pls. 9, figs. 20. Contribution from the Forest Service. (Professional Paper.) Aug. 31, 1914. (Department Bulletin 80.) Price, 15 cents.

This paper presents detailed information of value in experimental work in the laboratory and in promoting the efficiency of commercial paper-making plants employing the soda process.

Relative Resistance of Various Conifers to Injection with Creosote. By C. H. Teesdale, Engineer in Forest Products, Forest Products Laboratory. Pp. 43, pls. 8, figs. 9. Contribution from the Forest Service. (Professional Paper.) Sept. 25, 1914. (Department Bulletin 101.) Price, 15 cents.

The purpose of this bulletin is to show how woods should be graded in order that they may give uniform results when subjected to treatment with preservatives; it is intended for those interested in wood preservation.

The Granular Venereal Disease and Abortion in Cattle. By W. L. Williams, Professor of Surgery, Veterinary Department, Cornell University. Pp. 57, figs. 2. Contribution from the Bureau of Animal Industry. (Professional Paper.) Sept. 12, 1914. (Department Bulletin 106.) Price, 10 cents.

This bulletin describes a very common affection of breeding cattle, as to which there is a wide diversity of opinion. The paper is the result of extensive study and is of interest to veterinarians and cattle raisers generally.

Gate Structures for Irrigation Canals. By Fred C. Scobey, Irrigation Engineer, Irrigation Investigations. Pp. 61, pls. 12, figs. 18. Contribution from the Office of Experiment Stations. (Professional Paper.) Sept. 1, 1914. (Department Bulletin 115.) Price, 20 cents.

This paper will be of interest to engineers and directors of farmers' canal companies in the irrigated sections of the West.

Five Oriental Species of Beans. By C. V. Piper, Agrostologist in Charge, and W. J. Morse, Scientific Assistant, Forage-Crop Investigations. Pp. 32, pls. 7. Contribution from the Bureau of Plant Industry. (Professional Paper.) Sept. 2, 1914. (Department Bulletin 119.) Price, 10 cents.

This bulletin describes the adzuki bean, the rice bean, the mung bean, the urd, and the moth bean; it is of interest to botanists.

Apple Powdery Mildew and Its Control in the Pajaro Valley. By W. S. Ballard, Pathologist, Fruit-Disease Investigations, and W. H. Volck, County Horticultural Commissioner of Santa Cruz County, California. Pp. 26, pls. 6, figs. 5. Contribution from the Bureau of Plant Industry. Sept. 3, 1914. (Department Bulletin 120.) Price, 10 cents.

This bulletin is intended to assist apple growers in dealing with a fungous disease which is becoming a serious menace to their industry. It is suitable for distribution in the apple-growing sections west of the Rocky Mountains and in certain limited areas east of the Rocky Mountains, as shown on the map.

The Mycogone Disease of Mushrooms and Its Control. By F. J. Veihmeyer, Formerly Scientific Assistant in the Office of Pathological Collections and Inspection Work. Pp. 24, pls. 3, figs. 5. Contribution from the Bureau of Plant Industry. (Professional Paper.) Sept. 16, 1914. (Department Bulletin 127.) Price, 10 cents.

This bulletin describes a disease of mushrooms which causes great losses to growers and gives methods of control. Of interest to mushroom growers generally.

Distribution and Migration of North American Rails and Their Allies. By Wells A. Cooke, Assistant Biologist. Pp. 50, figs. 19. Contribution from the Bureau of Biological Survey. Sept. 25, 1914. (Department Bulletin 128.) Price, 10 cents.

This bulletin aims to give precise information as to the ranges of the several species of North American rails and their allies, the cranes, gallinules, coots, and others, especially in regard to breeding ranges and migrations; and to furnish data sufficient to serve as a basis for protective legislation for the species by States in which they are found.

Yields from the Destructive Distillation of Certain Hardwoods. By L. F. Hawley and R. C. Palmer, Chemists in Forest Products. Pp. 16, figs. 3. Contribution from the Forest Service. (Professional Paper.) Sept. 10, 1914. (Department Bulletin 129.) Price, 5 cents.

Gives results of experiments in destructive distillation of hardwoods. Of interest to manufacturers of by-products.

Repellents for Protecting Animals from the Attacks of Flies. By H. W. Graybill, D. V. M., Assistant Zoologist, Zoological Division, Bureau of Animal Industry. Pp. 26. Contribution from the Bureau of Entomology. Sept. 10, 1914. (Department Bulletin 131.) Price, 5 cents.

Contains data concerning substances which may be applied to live stock to protect them from flies, and is of interest and value to the live-stock industry.

Experiments With Crops Under Fall Irrigation at the Scottsbluff Reclamation Project Experiment Farm. By Fritz Knorr, Farm Superintendent, Western Irrigation Agriculture. Pp. 17, figs. 5. Contribution from the Bureau of Plant Industry. Sept. 16, 1914. (Department Bulletin 133.) Price, 5 cents.

The results of a 3-year experiment reported in this bulletin indicate that fall irrigation in the irrigated sections of the Great Plains area produces an increase in yield of field crops more than compensating for the cost.

Experiments in the Production of Crops on Alkali Land on the Huntley Reclamation Project, Montana. By Dan Hansen, Farm Superintendent, Office of Western Irrigation Agriculture. Pp. 19, figs. 7. Contribution from the Bureau of Plant Industry. Sept. 10, 1914. (Department Bulletin 135.) Price, 5 cents.

Gives results of different systems of cropping used to reclaim the alkali land on this project.

Commercial Turkestan Alfalfa Seed. By Edgar Brown, Botanist in Charge of Seed Laboratory. Pp. 6, fig. 1. Contribution from the Bureau of Plant Industry. Sept. 19, 1914. (Department Bulletin 138.) Price, 5 cents.

This bulletin is intended to warn American alfalfa growers to avoid the use of commercial Turkestan seed, which, though inferior to domestic-grown seed, is retailed at a higher price, making greater profits for the dealers. The bulletin tells how this cheapest of all alfalfa seeds in the European market can be identified.

Economic Conditions in the Sea Island Cotton Industry. By William R. Meadows, Cotton Technologist. Pp. 18. Contribution from the Office of Markets. Sept. 25, 1914. (Department Bulletin 146.) Price, 5 cents.

This bulletin discusses the economic conditions in the Sea Island cotton industry in South Carolina and the islands off the coast and also in portions of Georgia and Florida.

Experiments in Crop Production on Fallow Land at San Antonio. By C. R. Letteer, Assistant, Office of Western Irrigation Agriculture. Pp. 10, figs. 4. Contribution from the Bureau of Plant Industry. Sept. 19, 1914. (Department Bulletin 151.) Price, 5 cents.

A report on investigations with corn, cotton, and oats. On land cropped annually and on fallowed land cropped biennial near San Antonio, Tex., in which the latter was found not to be best in that section.

Classification of the Aleyrodidae. Part II. By A. L. Quaintance, In Charge of Deciduous Fruit Insect Investigations, and A. C. Baker, Expert. Pp. iv+95-109, pls. 35-48. Sept. 9, 1914. (Technical Series No. 27, Part II, Bureau of Entomology.) Price, 15 cents.



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The effect of Strongly Calcareous Soils on the Growth and Ash Composition of Certain Plants. By P. L. Gile, Chemist, and C. N. Agoston, Assistant Chemist. Pp. 45, pls. 4. Sept. 17, 1914. (Bulletin 16, Porto Rico Agricultural Experiment Station.) Price, 10 cents.

The Work of the Belle Fourche Reclamation Project Experiment Farm in 1913. By Beyer Aune, Farm Superintendent. Pp. 19, figs. 4. Sept. 8, 1914. (Bureau of Plant Industry.)

This circular is principally for distribution to the farmers of the Belle Fourche Reclamation Project in order that they may be informed as to the various experiments in progress at the farm and as to the methods of producing the different irrigated crops.

The Work of the San Antonio Experiment Farm in 1913. By S. H. Hastings, Farm Superintendent. Pp. 15, figs. 5. Sept. 9, 1914. (Bureau of Plant Industry.)

The Work of the Scottsbluff Reclamation Project Experiment Farm in 1913. By Fritz Knorr, Farm Superintendent. Pp. 19, figs. 5. Sept. 18, 1914. (Bureau of Plant Industry.)

The Work of the Yuma Reclamation Project Experiment Farm in 1913. By R. E. Blair, Farm Superintendent. Pp. 18, figs. 6. Sept. 12, 1914. (Bureau of Plant Industry.)

FARMERS' BULLETINS.

Sudan Grass as a Forage Crop. By H. N. Vinall, Agronomist, Office of Forage-Crop Investigations. Pp. 20, figs. 10. Contribution from the Bureau of Plant Industry. Sept. 2, 1914. (Farmers' Bulletin 605.)

Demands for information regarding this new hay plant have come from nearly every section of the United States, but more especially from the Southern States, where the need of a desirable hay grass has been acute since the advent of the boll weevil forced diversification of crops. This bulletin is designed to meet this demand by making available the information at hand.

Bird Houses and How to Build Them. By Ned Dearborn, Assistant Biologist. Pp. 19, figs. 48. Contribution from the Bureau of Biological Survey. Sept. 11, 1914. (Farmers' Bulletin 609.)

This bulletin is intended to encourage the protection and study of birds; it is suitable for distribution in all sections of the United States.

Wild Onion: Methods of Eradication. By H. R. Cox, Agriculturist, Office of Farm Management. Pp. 8, figs. 7. Contribution from the Bureau of Plant Industry. Sept. 9, 1914. (Farmers' Bulletin 610.)

This bulletin describes methods for eradicating the weed that is responsible for the "garlicky" taste and odor found in some milk and butter and in some bread, and is of especial interest to farmers and dairymen in the Atlantic coast region and as far inland as Missouri. The subject matter is based on and is an enlargement of the Bureau of Plant Industry circular (Doc. No. 416) entitled "The Wild Onion," by J. S. Cates and H. R. Cox.

The Agricultural Outlook. Contribution from the Bureau of Crop Estimates. Sept. 16, 1914. Pp. 39, figs. 5. (Farmers' Bulletin 620.)

CONTENTS.—General review of crop conditions, September 1, 1914—Cotton condition, August 25, 1914, with comparisons—Trend of prices of farm products—Florida and California crop report—Honey production—Conference on the cotton marketing situation—The hog supply—The apple crop—The 1914 crops in England—Condition, production, forecast, and prices of specified crops (tables)—Prices of farm products (tables)—The equivalent in yield per acre of 100 per cent condition on October 1—Crop conditions September 1, 1914, chart—Temperature and precipitation, charts.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

National Weather and Crop Bulletin, September 1, 8, 15, 22, 29, 1914, reporting temperature, rainfall, and crop conditions throughout the United States. (Issued weekly, on Tuesday, April to October; monthly remainder of year.)

NOTE.—The publication of the National Weather Bulletin in the single sheet form was discontinued with the issue of June 29, 1914. Hereafter this bulletin will appear in quarto form of eight or more pages, and in addition to the usual weather and crop information it will contain diagrams showing for the preceding weeks, from the beginning of the season, the temperature and precipitation conditions over the larger crop-growing areas, with departures from the normal values. The diagrams will likewise contain certain data showing the condition of the principal crops in these areas from month to month. These latter will be furnished by the Bureau of Crop Estimates, U. S. Department of Agriculture.

JOS. A. ARNOLD,
Editor and Chief Division of Publications.